

GLAST LAT Project Weekly Report for the two weeks ending July 12, 2001

*** CALORIMETER (Carosso)

4. 1. 5. 1 CAL Management

CAL PDR preparation

PDR Package, presentations, and documentation are being worked
Work on revised requirements, schedule, and budget continues

France

- Preparation and meetings for the I-PDR
- Work on the WBS and planning
- For every body the preparation of the I-PDR is a very important part of the work.
- B. Cordier has joined the Glast staff.

4. 1. 5. 3 Performance Assurance

- Prepared and released Cal Contamination Control Plan, Risk Mangement Plan, and Crystals QA Procurement, and Reliability plan.
- Prepared presentation for CAL and ACD Peer and PDR reviews.
- Working with GSFC to resolve issues related to 500V Capacitor, Zero Ohm Resistor, Poly fuse, and Plastic Parts.
- Attended ACD weekly meetings and discussed Parts and packaging issues.
- Working with French to resolve Kapton and Pin Photodiode issues.
- Working on Work Order Authorization and Problem Report data base.
- Revised WBS description.
- Working on I&T flow and Verification matrix.

4. 1. 5. 4 CAL Design

France

- Mechanical and thermal model study
- Tools for structure realisation in progress

4. 1. 5. 5 Crystal Detector Elements

Studies of PIN diode bonding continue. (NRL)

France

Successful measurements with an AmBe source have been done, fitted with 3 gaussians (4.433MeV gamma ray + the 2 escapes peak) .

We have tested 3 crystals in the 3 supports of the cosmic test bench both with cosmic muons (10MeV) and AmBe gamma ray.

We have increase the counting rate of the cosmic test bench, We are ready for the measurements of the 16 crystals from Sweden for VM2.

4. 1. 5. 5. 2 CAL CsI Scintillation Crystal

- Delivery to France of the first 16 CsI log for VM2 (two bags broken)

4. 1. 5. 5. 3 PIN Photodiode

France

PIN Interconnect:

- Work on the specification of the flex for interconnection.

- PIN Bonding - Fabrication By CETIM of sample of Glass glued on CsI with DC93500 and EP37
- Test of shear strain on several samples
- Start of the temperature cycling under vacuum machine.
- Test on the use of the depolishing and the primaire on the maximum shear stress of the DC93500
- Reception of the 2 x 8 first bonded samples
- Start of the thermal cycling of the samples.

4. 1. 5. 6 CAL Pre Electronics Module

Structure GSE:

- Tools for structure realisation in progress

PEM GSE

Procurement of hardware and progress in software.

4. 1. 5. 7 CAL Analog Front End Electronics

Completed assembly of GCFE test board. Received candidate DACs and OP-Amps back from being de-lidded. Will schedule laser latchup testing After Cal Peer PDR. Have had more discussions with DAPNIA collaborators about PIN diode interconnect. We are getting closer to a common solution. Continued work on Cal documentation and costing.

4. 1. E. 3 CAL Balloon Flight

We successfully collected charge-calibration data from the BFEM at GSFC. We practiced both the quick procedure (meant for flight-line use at Palestine) and the detailed procedure (meant for pre-flight-readiness verification at the high bay in Palestine). Analysis will be complete before pre-ship review. (NRL)

4. 1. 5. 4. 5 CAL Software/Design Verification

Summary report for CAL-HI trigger is complete and will be submitted to CyberDocs. (NRL)

CAL-L0 trigger study is complete, and report is in progress. (NRL)

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